

Appl. No.: 10/658,448
TC/A.U.: 3711 Docket No.: B03-57
Reply to Office Action of April 7, 2004

LISTING OF CLAIMS

Please amend the claims as follows:

1. (Original) A golf ball comprising:
a core having a Shore C hardness of about 70 or less, the core comprising at least a core layer comprising:
an elastomeric composition,
a reactive co-agent present by less than about 10 phr by weight of the elastomeric composition, and
a cross-linking agent;
at least a first intermediate layer encasing the core, the first intermediate layer having a Shore C hardness of about 70 to about 75; and
a cover encasing the first intermediate layer, the cover having a Shore C hardness of about 60 or less.
2. (Original) The golf ball of claim 1, wherein the elastomeric composition comprises a diene polymer.
3. (Original) The golf ball of claim 2, wherein the cross-linking agent is a peroxide.
4. (Original) The golf ball of claim 3, wherein the diene polymer is a polybutadiene.
5. (Original) The golf ball of claim 2, wherein the cross-linking agent is sulfur.
6. (Original) The golf ball of claim 5, wherein the diene polymer is an ethylene-propylene-diene polymer.
7. (Original) The golf ball of claim 6, wherein the ethylene-propylene-diene polymer comprises about 70% to about 90% ethylene.

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8. (Original) The golf ball of claim 7, wherein the ethylene-propylene-diene polymer further comprises about 1% to about 5% ethylidene-2-norborene.
9. (Original) The golf ball of claim 1, wherein the elastomeric composition comprises a material selected from a group consisting of metallocene catalyzed polymers, poly(styrene-butadiene-styrene), SEBS, SEPS block polymers, styrene-ethylene block copolymers, and polar group grafted or copolymerized polymers.
10. (Original) The golf ball of claim 1, wherein the reactive co-agent is present by less than about 5 phr.
11. (Amended) ~~The golf ball of claim 1, wherein the reactive co-agent is present by about 0 phr~~
A golf ball comprising:
a core having a Shore C hardness of about 70 or less, the core comprising at least a core
layer comprising:
an elastomeric composition,
about 0 phr of reactive co-agent by weight of the elastomeric composition, and
a cross-linking agent;
at least a first intermediate layer encasing the core, the first intermediate layer having a
Shore C hardness of about 70 to about 75; and
a cover encasing the first intermediate layer, the cover having a Shore C hardness of about
60 or less.
12. (Original) The golf ball of claim 1, wherein the reactive co-agent comprises a metal salt of diacrylate, dimethacrylate, or monomethacrylate, or a non-metallic oligomer.
13. (Original) The golf ball of claim 12, wherein the metal is selected from zinc, magnesium, calcium, barium, tin, aluminum, lithium, sodium, potassium, iron, zirconium, and bismuth.
14. (Original) The golf ball of claim 1, wherein the core further comprises an innermost core encased by the core layer.

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15. (Original) The golf ball of claim 14, wherein the innermost core comprises a diene polymer and about 10 phr to about 50 phr of a reactive co-agent.

16. (Original) The golf ball of claim 14, wherein the innermost core comprises a diene polymer and at least about 50 phr of a reactive co-agent.

17. (Original) The golf ball of claim 1, wherein the golf ball further comprises a second intermediate layer encasing the first intermediate layer, the second intermediate layer being harder than the first intermediate layer, and having a Shore C hardness of about 72 to about 77.

18. (Original) The golf ball of claim 17, wherein the golf ball further comprises a third intermediate layer encasing the second intermediate layer, the third intermediate layer being harder than the second intermediate layer, and having a Shore C hardness of about 75 to about 80.

19. (Original) The golf ball of claim 18, wherein the first, second, and third intermediate layers each has a thickness of less than about 2.54 mm.

20. (Original) The golf ball of claim 18, wherein the first, second, and third intermediate layers each has a thickness of less than about 1.27 mm.

21. (Original) The golf ball of claim 18, wherein the first, second, and third intermediate layers each has a thickness of about 0.76 mm to about 1.27 mm.

22. (Original) The golf ball of claim 1, wherein the core has a diameter of about 31.75 mm to about 40.64 mm.

23. (Cancelled).

24. (Cancelled).

25. (Cancelled).

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26. (Cancelled).

27. (Cancelled).

28. (Cancelled).

29. (Cancelled).

30. (Cancelled).

31. (Cancelled).

32. (Cancelled).

33. (Cancelled).

34. (Cancelled).

35. (Cancelled).

36. (Cancelled).

37. (Cancelled).

38. (Cancelled).

39. (Cancelled).

40. (Cancelled).

41. (Cancelled).

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42. (Cancelled).

43. (Cancelled).

44. (Cancelled).